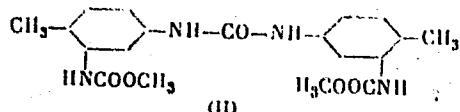


Concerning the Reactions of 2,4-Toluylene Diisocyanate With Water.

77894

SOV/79-30-2-45/78

Only melting temperatures were given for the compounds and structural formulas were not substantiated by experiments. The authors found that the above reaction yields a mixture of compounds, the melting temperature of which differs from the one given in patents by 5 to 10° C. The compound which by its chemical composition corresponds to 3,3'-diisocyanato-4,4'-dimethylcarbanilide (I) was treated with methanol and converted to corresponding diurethane (II) (mp 220-220.5° C).



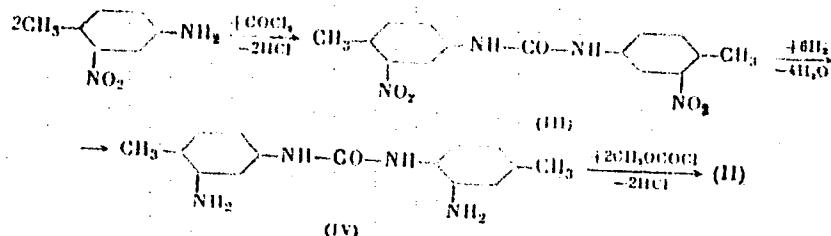
An identical urethane was obtained by parallel synthesis according to the following diagram.

Card 2/4

Concerning the Reactions of 2,4-Toluylene Diisocyanate With Water

77894

SOV/79-30-2-45/78



The urea derivative (IV) with amino groups in 3,3' position was not previously described in the literature. Authors obtained (IV) (mp 230 °C) by reducing (III) with hydrogen in the presence of Raney nickel. The diamine (IV) was treated with methyl chloroformate to yield corresponding diurethane which was identical with the diurethane obtained from (I). This proves the structure of (I). There are 4 references, 1 Soviet, 2 U.S., and 1 French. The U.S. references are: U.S. Patent 2757185, 2757184; D. Simons, R. Arnold, J. Am.

Card 3/4

Concerning the Reactions of 2,4-Toluylene
Diisocyanate With Water

77894
SOV/79-30-2-45/78

Chem. Soc., 78, 1658 (1956).

ASSOCIATION: Scientific Research Institute of Organic Intermediates
and Dyes imeni K. Ye. Voroshilov (Nauchno-issledovatel'-
skiy institut organicheskikh poluproduktov i krasiteley
imeni K. Ye. Voroshilova)

SUBMITTED: October 20, 1958

Card 4/4

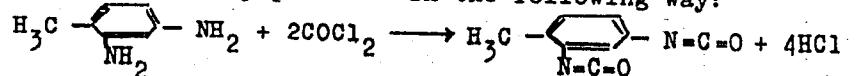
S/064/61/000/001/004/011
B110/B215

AUTHORS: Khmel'nitskaya, I. L., Gutorko, A. V., Shikhireva, L. I.,
Stroyesku, A. K.

TITLE: Technological problems of synthesizing 2,4- and 2,6-toluylene diisocyanate

PERIODICAL: 'Khimicheskaya promyshlennost', no. 1, 1961, 18-21

TEXT: Diisocyanates required for the production of polyurethane, such as 2,4-toluylene diisocyanate and a mixture of 2,4- and 2,6-diisocyanates, are commercially produced in the following way:



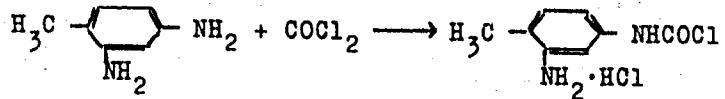
By applying the continuous method, the yield is increased from 65% to 80% as compared to the periodic method. Time-consuming cleaning of the apparatus becomes necessary due to the formation of adhesive resins in the reaction. The authors studied the influence of various factors on diisocyanate and the formation of resin, and the possibilities of using

Card 1/6

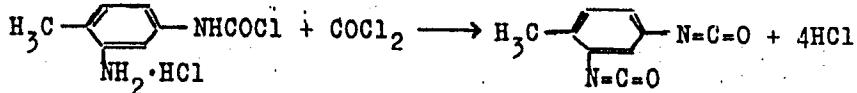
Technological problems of...

S/064/61/000/001/004/011
B110/B215

up and removing resin residues for improving the above method. To eliminate side reactions, phosgene treatment is first carried out at low temperatures (0 to 5°C). To eliminate the formation of urea derivatives, toluylene diamine is added to a solution of excessive phosgene in o-C₆H₄Cl₂ or C₆H₅Cl. The following reaction takes place:



By a temperature increase to more than 100°C, diisocyanate forms under the influence of phosgene:



The authors studied the addition of toluylene diamine dissolved (I) or suspended (II) to an inert solvent during the continuous method. In (I) the diamine was dissolved in C₆H₅Cl, heated to 90 to 95°C, and added to the solution of phosgene in C₆H₅Cl which had been cooled down to -10°C.

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Technological problems of...

S/064/61/000/001/004/011
B110/B215

In (II), diamine dissolved in C_6H_5Cl was cooled down to $0^{\circ}C$ under constant stirring. The limpid liquid changed into a coarse suspension which was pulverized in the ball mill for 7-8 hr. Degree of dispersion and homogeneity of the suspension were studied under the microscope. At $0^{\circ}C$, the suspension was added to the $-10^{\circ}C$ solution of phosgene; this caused a rise in temperature of up to $-5^{\circ}C$. In (I) and (II), phosgene treatment was continued at $120^{\circ}C$. The process was finished after the residue had disappeared. HCl and $COCl_2$ were blown off by N_2 , and solvent and diisocyanate were separated by fractionation. The isocyanate groups of the final product were determined by condensation of diethylamine. The nitrogen content of the resin was microanalytically determined according to Dumas. In solution (I) larger solid particles formed in the first part of phosgene treatment, due to partial overheating. For suspension (II), the dependence of resin formation on the size of particles is given in a table. With particle sizes $< 10\mu$, the suspension contains no larger solid particles, and the formation of resin is reduced to 15%, as compared to 22 to 32% in solution (I). Aqueous grinding therefore yielded a sufficient degree of dispersion and particle homogeneity at high suspension density. The

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Technological problems of...

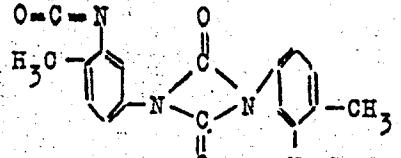
S/064/61/000/001/004/011
B110/B215

decomposition of the resin particles into toluylene diamine can only be carried out with aqueous alkali and under pressure, whereas they can be transformed into diisocyanate by distillation at 215°C and 1 to 80 mm Hg in high-boiling naphthene oil. For the latter process, however, an oil that is stable up to 300°C, a high vacuum, and filtering are required. The authors worked without solvents. After the distillation of diisocyanate at 105 to 107°C and 3 to 7 mm Hg, 16.5% of N₂ were microanalytically determined in the resin residue (38 to 40 percent by weight of the distilled diisocyanate) according to Dumas. Diisocyanate vapors were separated from the residue in the vacuum apparatus at 3 to 7 mm Hg and slowly increasing temperature. At 170 to 180°C it puffed up and hardened. Vapor separation stopped between 280 and 300°C. The residue, a dry, brittle, porous substance, was easily removable after cooling it in the N₂-current. Its nitrogen content was 16.4%. The authors assume that the original residue, besides the not distilled monomers, also contained the following dimer:

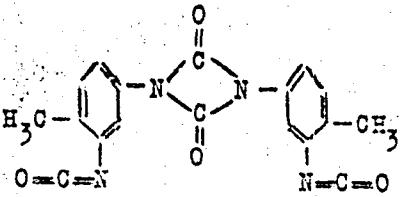
Card 4/6

-10
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-20
-25
30
Technological problems of...

S/064/61/000/001/001/011
B110/B215



or



which decomposes into the monomer at 175°C. The second residue consists of high-polymer compounds. There are 1 table and 6 references: 2 non-Soviet-bloc.

Card 5/6

Technological problems of...

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B110/B215

Legend to the Table: yield of diisocyanate and resin particles by adding emulsions, 1) particle size μ , 2) yield, %, 3) toluylene diisocyanate, 4) resin particles, 5) mixture of 2,4- and 2,6-toluylene diamine, 6) toluylene diamine.

1) Размер частиц	2) Выход, %		
	3) Толуилидендиизоцианат	4) Имидистых примесей**	
5) Смесь 2,4- и 2,6-толуилидендиаминов			
≤ 10	79,8	15,1	
≤ 50	70,0	21,8	
≤ 300	65,6	24,4	
6) 2,4-Толуилидендиамин			
≤ 10	78,3	15,2	
≤ 300	67,0	19,1	

Card 6/6

KHMEL'NITSKAYA, I.L.; SERGEYEVA, Z.I.

Effect of sulfur dyes on the strength of cotton fabrics. Tekst.
prom. 21 no.2:52-54 Ja '61. (MIRA 14:3)
(Sulfide dyes) (Cotton fabrics)

SERGEYEVA, Z.I.; KHMEL'NITSKAYA, I.L.

Protective properties of cyanamide polymers. Tekst. prom. 21
no. 4:45-47 Ap '61. (MIRA 14:7)
(Cyanamide) (Dyes and dyeing--Cotton)

VOSTOKOV, Aleksey Ismaylevich; LEPASHKIN, Ivan Pavlovich; DIPISHIN, A.S.,
inshener, retsenzent; KHMELOVITSKAYA, Kh.Z., redaktor; CHIEBYSHNEVA,
Ye.A., tekhnicheskiy redaktor.

[Production of sugar from beets] Preizvedstvo sakhara iz sverkly.
Moskva, Pishchepromisdat. №.1 [General description of the sugar
beet industry] Obshchee opisanie svetlosakharnego preizvedstva.
1955. 102 p. (Sugar industry) (MIRA 9:5)

KOMAROV, Avramiy Fedorovich; KOLOSKOV, Sergey Pavlovich; KUZNETSOV, N.M.,
spetsredaktor; ~~Khvorobinskaya, D.L.~~, redaktor; SEMENOV, P.V.,
kandidat tekhnicheskikh nauk, retsentent; KISIHA, Ye.I., tekhnicheskiy redaktor.

[Mechanization of labor consuming operations in distilleries]
Nekhanizatsiya trudoemkikh rabot na spirtovykh zavodach. Mo-
skva, Pishchepromisdat, 1957. 173 p. (MLRA 10:6)

(Distilling industries)

KRAPIVNER, V.S.; KHEML'NITSKAYA, K.K.

Condition of the cardiovascular system in endarteritis obliterans
of the lower extremities. Sov.med. 20 no.5:54-58 My '56. (MIRA 9:9).

1. Iz otdeleniya funktsional'noy diagnostiki (zav. V.S.Krapivner)
polikliniki imeni F.E.Dzerzhinskogo (glavnyyvrach I.O.Karakazov,
nauchnyy rupoveditel' - prof. A.N.Berinskaya) Ministerstva nefti-
noy promyslennosti SSSR.

(ENDARTERITIS OBLITERANS, complications,
cardiovasc. dis., systemic, in endarteritis of leg (Rus))
(CARDIOVASCULAR SYSTEM, in various diseases,
endarteritis obliterans of lower extremities with
systemic cardiovasc. manifest. (Rus))

KONSTANTINOV, A.; ALEKSANDROV, L.; KHMEL'NITSKAYA, L., red.;
SINYUKHIN, V., tekhn. red.

[Guide to the exhibition of Achievements of the National
Economy of the U.S.S.R.] Putevoditel' vystavki dostizhenii
narodnogo khoziaistva SSSR. Moskva, Otdel informatsii i
pechati VDNKh SSSR, 1962. 74 p. (MIRA 17:2)

1. Moscow. Vystavka dostizheniy narodnogo khozyaystva SSSR.

GAL'PERIN, Yu.; KHTEL'NITSKAYA, L., red.

[Miracles are created by people; guide] Chudes a tvoriat liudi;
putevoditel'. Moskva, TSintelektroprom, 1962. 78 p.
(MIRA 15:8)
(Moscow--Exhibitions) (Technological innovations)

PISARZHEVSKIY, O.N.; KHMEL'NITSKAYA, L., red.; MAYOROV, V., tekhn.
red.; SINYUKHIN, V., tekhn. red.

[Science on the march] Nauka na marshe; putevoditel'-ocherk.
[By] O.Pisarzhevskii. Moskva, Gostoptekhizdat, 1962. 40 p.
(MIRA 15:12)
1. Moscow. Vystavka dostizheniy narodnogo khozyaystva SSSR.
(Moscow--Exhibitions) (Technological innovations)
(Research)

KHMEL'NITSKAYA, L.L.

Disorders of cardiac rhythm and their treatment. Sov. zdrav. Kir. no.3:
49-54 My-Je '62. (MIRA 15:5)

1. Iz kafedry propedevticheskoy terapii (zav. - doksent M.M.Mirrakhimov)
Kirgizskogo gosudarstvennogo meditsinskogo instituta.
(ARRHYTHMIA)

"APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000722110016-1

KHMEL'NITSKAYA, M.I.

Representation of desert vegetation on a 1 : 25000 topographic map.
Geod. i kart. no.1:40-45 Ja '64. (MIRA 17:9)

APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000722110016-1"

"APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000722110016-1

KHMEL'NITSKAYA, M.I.

Selecting the height of a section in the representation of sand relief
on 1:25,000 scale maps. Geod. i kart. no.7:55-62 Jl '64.

(MIRA 17:12)

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CIA-RDP86-00513R000722110016-1"

GOLOVATYY, R.M. [Holovatyj, R.M.]; KHMELOVITSKAYA, N.M. [Khmel'nyts'ka, N.M.]

Concentration of traces of heavy metals from natural waters
by the cationite method. Nauk.sap.L'viv.un. 46:141-144 '58.
(MIRA 12:7)
(Ion exchange) (Water--Analysis)

KHMEL'NITSKAYA, N.M. [Khmel'nyts'ka, N.M.]; ZEMLYANSKIY, M.I.
[Zemlians'kyi, M.I.], dots., otv. red.; KVITKO, I.S.,
red.

[Organic chemistry] Organichna khimiia. L'viv, Vyd-vo
L'viv's'koho univ., 1965. 347 p. (MIRA 18;9)

BLYUMBERG, V.A., inzh.; KIMER, NITSKAYA, N.Ye., inzh.

Intensified drying of the windings of electrical machines.
Elektrotekhnika 35 no. 5:39-40 My'64 (MTRA 17t8)

BLYUMBERG, V.A., inzh.; KHMEL'NITSKAYA, N.Ye., inzh.

Drying of the windings of electrical machines after saturation with
water emulsion lacquers. Vest. elektroprom. 34 no.5:11-15 My
'63. (MIRA 16:5)
(Electric machinery--Windings) (Electric machinery--Drying)

KHMEL'NITSKAYA, P.A.

MUKHINA, T.G.; SKROBUT, S.A.; KHMEL'NITSKAYA, P.A.; SHPAYER, A.L., redaktor;
PANOVA, L.Ya., tekhnicheskiy redaktor

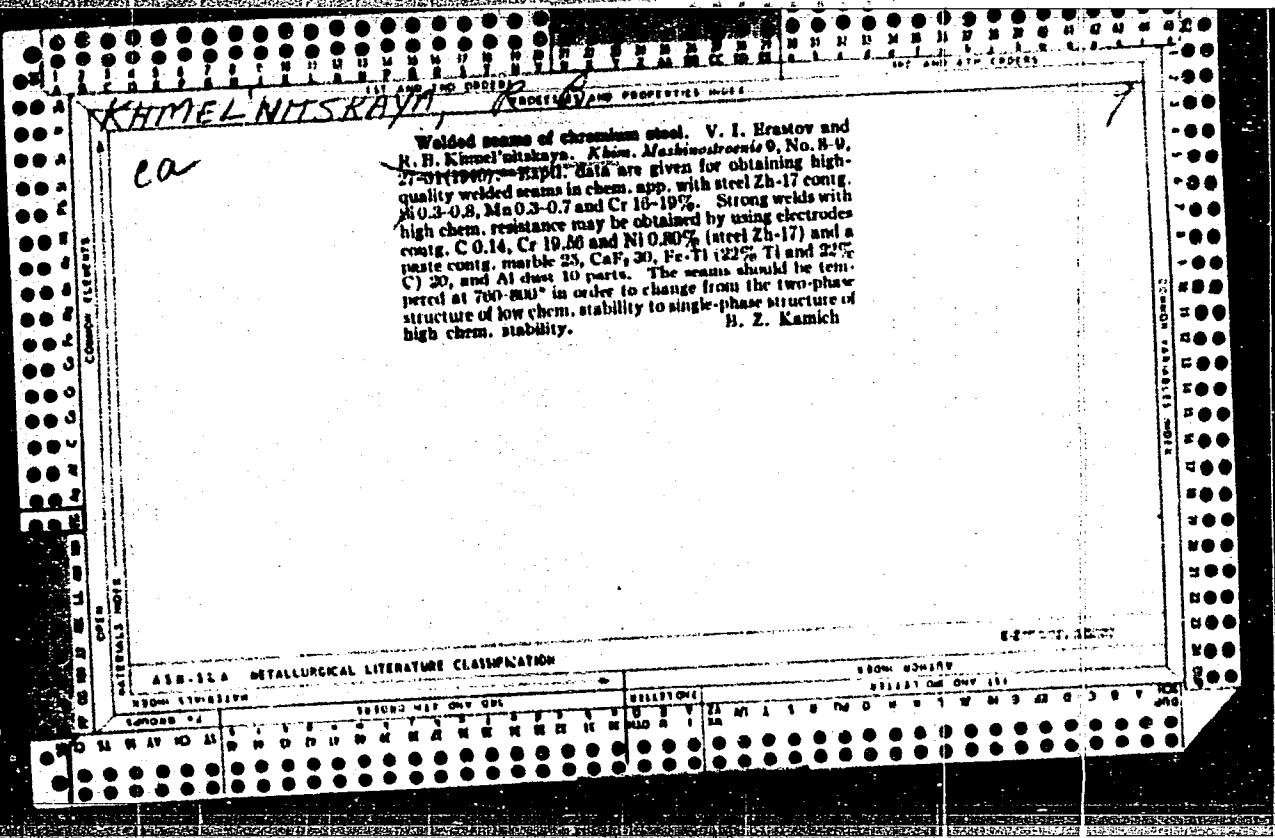
[How production costs were cut; Igubertay silicate brick factory]
Kak snizhalas' sebestoimost' produktov; Liuberetskii zavod sili-
katnogo kирпича. Moskva, Gos. izd-vo lit-ry po stroit. materialam,
1956. 34 p. (MLR/ 10:4)

(Igubertay--Brickmaking)

KHMEL'NITSKAYA, R., inzh.; RASKOVALOV, A.

Creating a central photographic laboratory. Prom.koop. 14
no.2:27 P '60. (MIRA 13:5)

1. Otdel bytovogo obslushivaniya gorpromsoveta, Sverdlovsk
(for Khmel'nitskaya). 2. Tekhnicheskiy rukovoditel' arteli
"Fotoob'yedineniye," Sverdlovsk (for Raskovalov).
(Sverdlovsk--Photography--Studios and dark rooms)



KHMEL'NITSKAYA, R.		9	
CA			
PREDSTAVLJENIE IZBRANNOY PUBLIKACII			
<p>Corrosion resistance of aluminum-welded in nitric acid</p> <p>R. I. Khmel'nitskaya. <i>Avtorizov. Izbran. i Nef. 7</i>, No. 6, 29-32 (1941).—Al is particularly suitable for app. in the N industry as it is extremely resistant to attack by HNO₃. Sheet Al, 6 and 10 mm. thick, contg. 0.48-0.67% Si + Fe, and in part of the expts. a special Al contg. 0.002% Cu, 0.00% Si, and 0.000% Fe, were oxy-acetylene welded. The samples were tested as welded, as peened, as peened and annealed at 300°, and as preened and H.A. quenched from 300°. The greatest attack was noted in 15, and 50%, HNO₃. At 0° the rate of corrosion was about 20-40 times that at room temp. The usual evaluation by wt. loss was not satisfactory, owing to the local nature of the attack. A qual. evaluation based on the depth and non-uniformity of the attack is recommended. The nonuniform attack was due to the insufficient d. of the weld metal and to micro cracks and enrichment of the Si and Fe-Al segregates in the contact zone. The d. was increased by peening but at the cost of some loss of corrosion resistance. Heat-treatment at temps. over 300° increased the corrosion resistance. Heat-treatment at 300° gave the min. wt. loss, but produced a large grain size which made the Al dull and rough after corrosion. The most uniform corrosion was observed after annealing at 300°. Increased purity of the welding rod somewhat decreased the wt. loss of the welds but did not eliminate the nonuniformity of attack. For best corrosion resistance, a high-purity welding rod should be used, the peening should be done with particular attention to the contact zone and the welded joint should finally be heated to 300-350° and cooled in air or H₂O.</p> <p>J. Z. Briggs</p>			
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SEARCHED		INDEXED	
18 JUN 1963 MAY 1964			

PEKARSKAYA, S.L.; KHMEL'NITSKAYA, R.P.

Vascular reactions in a tuberculosis patient during antibacterial treatment. Vop. epid. i klin. tub. 5:259-262 '58. (MIR. 14:12)
(TUBERCULOSIS)

KOGAN, P.Iu.; KHMEL'NITSKAYA, R.S. [Khmel'nyts'ka, R.S.]

Production has to be of excellent quality. Leb.prom. no.3:65-66 Je - Ag
'62. (MIRA 16:2)

1. Khar'kovskaya mekhnovaya fabrika No.1.
(Kharkov—Fur)

NIKOLAYCHUK, S.; KHTEL'NITSKAYA, S.; RUBCHINSKIY, I.

Progressive work practice. Den. i kred. 21 no.8:49 Ag '63.
(MIRA 16:9)
(Lyubertsy--Banks and banking)

KHMEL'NITSKAYA, S. A.

Khmel'nitskaya, S. A. "The change in basic metabolism under the effect of surgical intervention," Trudy Krymsk. med. in-ta im. Stalina, Vol. IV, 1948, p. 201-04

SO: U-3850, 16 June 53, (Letopsis 'Zhurnal 'nykh Statey, No. 5, 1949)

KHMEL'NITSKAYA, Vera Vladimirovna; FEDIN, P.Ye., otv. red.;
ZAKHARUTINA, G., red.

[Group system of raising dam-suckled calves in the Maritime Territory] Pod sosno-gruppovoe vyrashchivaniye molodniaka v Primorskem krae. Vladivostok, Primorskoe knizhnoe izd-vo, 1962. 37 p. (MIRA 17:4)

KHOMEL', Ye.B., kand. tekhn. nauki; KHMEL'NITSKAYA, Yo.G., mladshiy nauchnyy sotrudnik; SLAKHET, G.A., inzh.

Moisturing fur skins by steam-air mixture. Leg. prom. 18 no. 5:35-36
My '58. (MIRA 11:6)
(Fur—Dressing and dyeing)

FRENKEL', YE. B., KHMEL'NITSKAYA, YE. G.

Hides and Skins

Effect of rolling off operations on the shrinkage of sheepskin. Leg, prom., No.3, 1952.

Monthly List of Russian Accessions, Library of Congress, June 1952. Unclassified.

ZUBIN, A.M., kand.biolog.nauk; KUZNETSOV, B.A., prof., doktor biolog.
nauk; MOSHKOV, A.N., kand.sel'skokhoz.nauk; PURIM, Ya.A., kand.
tekhn.nauk; CHATSKIY, P.I., kand.tekhn.nauk; SERGEEVA, T.A.,
kand.tekhn.nauk; BARYKIN, A.M., kand.tekhn.nauk; LOSEVA, N.L.,
kand.tekhn.nauk [deceased]; RUMYANTSEV, M.Z., starshiy nauchnyy
sotrudnik [deceased]; LAPIDUS, L.G., starshiy nauchnyy sotrudnik;
FRANKEL', Ye.B., kand.tekhn.nauk; KHMELOVITSKAYA, Ye.G., mladshiy
nauchnyy sotrudnik; KATALEV, V.P., kand.ekonom.nauk; KLYAGINA, N.I.,
red.; MARTYNOV, S.Y., red.; MINAYEVA, T.M., red.; PLEMYANNIKOV,
M.N., red.; KNAKNIN, M.T., tekhn.red.

[Manual on fur and sheep pelt garment manufacture] Spravochnik po
mekhovoi i ovchinnno-shubnoi promyshlennosti. Vol.2. [Raw materials,
Semifinished and final products. Production technology] Syr'e.
Polufabrikaty i izdeliya. Tekhnologiya proizvodstva. 1959. 631 p.
(MIRA 13:3)

1. Nauchno-issledovatel'skiy institut mekhovoy promyshlennosti
(NIIMP) (for Rumyantsev, Lapidus).
(Hides and skins) (Fur--Handbooks, manuals, etc.)

FRENKEL', Ye.B.; SHAKHET, G.P.; KAZAS, V.M.; KHIMEL'NITSKAYA, Ye.G.;
BRUSSE, V.M.; KAS'YANOVA, R.V.

New method of moistening fur skins and cuts in furrier work
Kosh.-obuv.prom. 5 no.1:28-31 Ja '63. (MIRA 16:2)
(Fur—Dressing and dyeing)

FRENKEL', Ye.B., kand tekhn.nauk; ~~KHMEL'NITSKAYA, Ye.O.~~, mladshiy nauchnyy sotrudnik; KAS'YANOVA, R.V., tekhnolog

Using a steam-air mixture for moisturizing pelts and semifinished sections in furrier work. Nauch.-issl.trudy NIIMP no.10:65-75 '60.
(MIRA 14:4)

(Fur--Dressing and dyeing)

FRENKEL', Ye.B., kand. tekhn. nauk; KHTEL'NITSKAYA, Ye.G., mladshiy nauchnyy sotrudnik; KAS'YANOVA, R.V.

Use of infrared rays for rabbit pelt drying during the dyeing of raw skins. Nauch. issl. trudy NIIMP no.12:39-45 '63.

Radiation-convection method for drying sheep pelts with the use of gas radiators. Ibid.:45-55 (MIRA 17:11)

KHMEL'NITSKAYA, Ye.

Some features of the economic development of the German Federal
Republic. Vop.3ken.no.3:141-158 Mr '56. (MLRA 9:7)
(Germany, West--Economic conditions)

KHMEL'NI茨SKAYA, Ye.

State-monopoly capitalism in Western Germany. Vop. ekon. no.
10:81-95 O '56. (MLRA 9:11)

(Germany, West--Economic policy)

KHMEL'NITSKAYA, Yelizavata Leonidovna; SHCHETININ, V.D., red.;
YEPIFANOV, M.P., red.; ROMANOVA, N.I., tekhn.red.

[Monopolistic capitalism in West Germany] Monopolisticheskii
kapitalizm Zapadnoi Germanii. Moskva, Izd-vo IMO, 1959.
353 p. (MIRA 13:4)
(Germany, West--Economic conditions)

ARZUMANYAN, A.A., red.; LEMIN, I.M., doktor istoricheskikh nauk, red.;
KHMELEVITSKAYA, Ye.I., doktor ekonom.nauk, red.; KUCHINSKIY,
N.N., red.izd-va; SHAMBERG, V.M., red.izd-va; GOLUB', S.P.,
tekhn.red.

[Problems of present-day capitalism; on the eightieth birthday
of Academician E.S.Varga; collection of articles] Problemy
sovremennoego kapitalizma: k 80-letiiu akademika E.S.Varga;
sbornik statei. Moskva, 1959. 398 p. (MIRA 12:12)

1. Akademiya nauk SSSR. Institut mirovoy ekonomiki i mezhdu-
narodnykh otnosheniy.
(Economics)

GLUSHKOV, V.P., kand. ekon. nauk; POKROVSKIY, A.I., kand. ekon. nauk; WEBER,
A.B., kand. istor. nauk; VASIL'KOV, N.P., kand. ekon. nauk; ARDAYEV,
G.B., kand. ekon. nauk; TIMASHKOVA, O.K., kand. ekon. nauk; KIMEL'-
NITSKAYA, Ver.L., doktor ekon. nauk, otd. red.; PANTELEYEV, V.I., red.
izd-va; RYLINA, Yu.V., tekhn. red.

[Government ownership in Western Europe] Gosudarstvennaya sobstven-
nost' v stranakh Zapadnoi Evropy. Moskva, Izd-vo Akad. nauk SSSR,
1961. 463 p.
(MIRA L.11)

1. Akademiya nauk SSSR Institut mirovoy ekonomiki i mezhdunarodnykh
otnosheniy. 2. Sektor stran Zapadnoy Evropy Instituta mirovoy eko-
nomiki i mezhdunarodnykh otnosheniy AN SSSR (for all except Panтелейев,
Рылина).

(Europe, Western—Government ownership)

KHMELOVITSKAYA, Ye.

(P)

USSR

KHMELOVITSKAYA, Ye., (USSR), during the period 27 Aug - 3 Sep 62, participated in an informal conference of Marxist theorists from 23 countries on both sides of the iron curtain to discuss "Problems of Modern Capitalism." The conference, sponsored by the Soviet Union, was held in Moscow under the direction of the USSR Institute of World Economics and International Relations.

FID SUMMARY NO 4243, 23 JAN 63, OJO

KHMEL'NITSKAYA, Ye.L., doktor ekon. nauk, prof.; LEMIN, I.M., doktor ist. nauk; MAKSIMOVA, M.M., kand. ekon. nauk; GONCHAROV, A.N., kand. ekon. nauk; VASIL'KOV, N.P., kand. ekon. nauk; VAL'KOV, V.V., kand. ekon. nauk; KOLLONTAY, V.M., kand. ekon. nauk; ETINGER, Ya.Ya., kand. ekon. nauk; DALIN, S.A., kand. ekon. nauk; PUSHKIN, A.A., mlad. nauchnyy sotr.; MOROZOV, V., red.; MOSKVINA, R., tekhn. red.

[Economic problems of the "Common Market."] Ekonomicheskie problemy "Obshchego rynka." Moskva, Sotssekzgiz, 1962. 510 p.

(MIRA 16:3)

1. Akademiya nauk SSSR. Institut mirovoy ekonomiki i mezhdunarodnykh otnosheniy. 2. Institut mirovoy ekonomiki i mezhdunarodnykh otnosheniy Akademii nauk SSSR (for all except Morozov, Moskvina).

(European Economic Community)

KHMEL'NITSKAYA, Ye.L., prof., doktor ekon. nauk; VOLKOV, M.Ya., kand. ekon. nauk; BEL'CHUK, A.I., kand. ekon. nauk; IORDANSKAYA, E.N., ml. nauchn. sotr.; MENZHINSKIY, Ye.A.; PAVLOVA, M.A., kand. ekon. nauk; VASIL'KOV, N.P., kand. ekon. nauk; ARDAYEV, G.B., kand. ekon. nauk; VAL'KOV, V.A., kand. ekon. nauk; TIMASHKOVA, O.K., kand. ekon. nauk; ANDREYEV, Yu.K., ml. nauchn. sotr.; PUSHKIN, A.A., ml. nauchn. sotr.; MAKSIMOVA, M.M., kand. ekon. nauk; KIRSANOV, A.V., kand. ekon. nauk; SHEBANOV, A.N., ml. nauchn. sotr.

[Changes in the economic structure of the countries of Western Europe] Izmenenija v ekonomiceskoi strukture stran Zapadnoi Evropy. Moskva, Nauka, 1965. 433 p. (MIRA 18:9)

1. Akademiya nauk SSSR. Institut mirovoy ekonomiki i mezhdu-narodnykh otnosheniy.

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S/181/62/004/007/022/037
B102/B104

AUTHORS: Baru, V. G., and Khmel'nitskaya, Ye. M.

TITLE: The recombination processes in artificial PbS single crystals

PERIODICAL: Fizika tverdogo tela, v. 4, no. 7, 1962, 1897-1900

TEXT: The high defect concentration (Pb - acceptors, S - donors) in artificially grown PbS single crystals is due to the nonuniformity of the temperature field when the crystal, grown in a melt, is cooled down. The statistics of the recombination processes attendant upon such thermal defects are studied theoretically. Assuming Boltzmann distribution in bands and local levels, and allowing for the fact that both types of defects form very shallow local levels, expressions are derived for the recombination rates, the defect concentrations, and the coefficients of radiative recombination. These relations are used to estimate the lifetime of the non-equilibrium carriers in dependence on the electron concentration. The curves $\tau(n)$ show that τ has a maximum at

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The recombination processes in ...

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$n \approx 3 \cdot 10^{15} \text{ cm}^{-3}$ and that in all cases the lifetimes are shorter in radiationless recombinations than in radiative recombination. In the latter mechanism, τ is a function of n^2 ; for p-type substances, $\tau_p^2 = 2 \cdot 10^{27} \text{ sec} \cdot \text{cm}^{-6}$, which agrees with measurements carried out by N. S. Baryshev and I. S. Aver'yanov ($3 \cdot 10^{27} \text{ sec} \cdot \text{cm}^{-6}$). There is 1 figure.

ASSOCIATION: Gosudarstvennyy opticheskiy institut im. S. I. Vavilova,
Leningrad (State Optical Institute imeni S. I. Vavilov,
Leningrad)

SUBMITTED: March 1, 1962

Card 2/2

SOCHAVA, V.B., otv. red.; KROTOV, V.A., prof., otv.red.; GHERASIMOV, I.P.,
akad., red.; POKSHISHEVSKIY, V.V., prof. red.; RIKHTER, G.D.,
prof., red.; VOROB'YEV, V.V., kand.geogr.nauk, red.; KUDINOVA,
L.I., red.; KHMELOVITSKAYA, Ye.S., red.; SEPPING, N.G., red.;
PECHERSKAYA, T.I., tekhn.red.

[Geographical problems of Siberia and the Far East; results of
the First Scientific Conference of the Geographers of Siberia and
the Far East] Problemy geografii Sibiri i Dal'nego Vostoka; itogi
Pervogo nauchnogo soveshchaniya geografov Sibiri i Dal'nego Vosto-
ka. Irkutsk, Irkutskoe knizhnoe izd-vo, 1960. 133 p.

(MIRA 14:5)

1. Akademiya nauk SSSR. Sibirskoye otdeleniye. Institut geografii
Sibiri i Dal'nego Vostoka. 2. Chlen-korrespondent AN SSSR (for
Sochava)

(Siberia--Geography) (Soviet Far East--Geography)

MALYSHEV, L.I., ottv. red.; SEPPING, N.G., red.; NEMEN'NITSKAYA,
Ye.S., red.

[Scienc. lectures dedicated to the memory of Mikhail
Grigor'yevich Popov] Nauchnye chteniiia pamiati Mikhaila
Grigor'yevicha Popova. Irkutsk, Irkutskoe knizhnoe izd-vo,
no.5. 1963. 81 p. (MIRA 17.11)

1. Akademiya nauk SSSR. Sibirskoje otdeleniye.

GRIBOVA, Ye.A.; KHMEL'NI茨SKAYA, Ye.Yu.

Analysis of mixture of ethanolamines. Zav. lab. 31 no.4:417-419
'65. (MIR: 18:12)

1. Nauchno-issledovatel'skiy institut organicheskikh poluproduktov
i krasiteley.

KHMEL'NITSKAYA, Ye.Yu.; GRIBOVA, Ye.A.

Concerning the article by G.D. Gal'pern and N.N. Eezinger
"Determination of primary, secondary, and tertiary amino
groups when present together". Zhur. anal. khim. 19 no.11:
1417-1418 '64. (MIRA 18:2)

KHMEL'NITSKAYA, Ye.Yu.

Analysis of 2,6-diaminopyridine by potentiometric titration.
Zav.lab. 31 no.4:422 '65. (MIRA 18:12)

1. Nauchno-issledovatel'skiy institut organicheskikh
poluproduktov i krasiteley.

ACCESSION NR: AP4020097

S/0304/64/000/001/0052/0053

AUTHORS: Gaysin, B. M. (Engineer); Khmel'nitskaya, Yu. P. (Engineer)

TITLE: Producing complex shapes in steel castings with clean surfaces

SOURCE: Mashinostroyeniye, no. 1, 1964, 52-53

TOPIC TAGS: steel, casting, shaped casting, complex shape, cast lubricant, lubricant, zirconium die lubricant, zirconium powder, nitroenamel, 624A nitroenamel, 646 solvent

ABSTRACT: Producing casting molds by the chemical hardening method has become very popular. It could not be used, however, in casting complex shapes because of the absence of good anti-pickup materials capable of preventing cinder fragments from adhering to the steel surface. A self-drying zirconium dye was devised by the TsNITMash for this purpose. It contains (in vol. %) zirconium powder - 53, nitro-enamel 624A -- 10-15, 646 solvent--32-37. Its specific weight is 1.9-2.0 g/cm³. Cold casting molds blown through with CO₂ were covered with the first layer of this dye and allowed to dry for 4-5 minutes. They were then covered by the second

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ACCESSION NR: AP4020097

layer of the dye and dried for 20-30 minutes. If a double layer did not prevent the pickup, the molds were covered by three or four layers and dried for a longer period of time. The steel castings so protected were free of surface defects. The dye is characterized by its stable pigment suspension, by its high painting ability, by rapid drying in air, by the formation of a durable layer, and by fast hardening. One ton of castings required 1.5-2 kg of paint.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 31Mar64

ENCL: 00

SUB CODE: ML

NO REF SOV: 000

OTHER: 000

Card 2/2

KHIMEL'NITSKAYA, Z.D.

USSR/Farm Animals - Large Horned Cattle.

0-2

Abs Jour : Ref Zhur - Biol., No 18, 1958, 83340

Author : Odynets, R.N., Yakovlev, V.G., Dokunin, A.F.,
Khmel'nitskaya, Z.D.

Inst : Institute of Zoology and Parasitology, AS KirgSSR.

Title : The Effect of Sugar Beets upon Nitrogen, Calcium, and Phosphorus Metabolisms in Milch Cows.

Orig Pub : Tr. In-ta zool. i parazitol. AN KirgSSR, 1957, vyp. 6, 231-240.

Abstract : In addition to their usual diet, Alatausian breed cows received 40-45 kg of fodder beets in the first series of tests. In the second series of tests they received in addition to their usual diet 20 kg of sugar beets (5 kg 4 times daily). When sugar beets were fed to the animals, the following blood indicators became higher: the water

Card 1/2

AFANAS'YEV, P.V.; YAKOVLEV, V.G.; FRENKEL', G.L.; KHMELOVITSKAYA, Z.D.

Biochemistry of thermal traumas. Izv. AN Kir. SSR no.5:121-131
'58. (NIRA 11:?)
(Cold--Physiological effect) (Heat--Physiological effect)

KHMEL'NITSKIY, A.

The Volga-Baltic Sea Waterway is an important construction project
of the seven-year plan. Volog. kari no.3;3-12 '62. (MIRA 16:12)

1. Nachal'nik "Volgobaltstroya".

KHTEL'NITSKIY, A. D.

Khmel'nitskiy, A. D. - "Study of the flywheel operation of the stone jaw crusher,"
Nauch. trudy (Akad. kommunal. khoz-va im. Pamfilova), Issue 1, 1949, p. 43-51

SO: U-4934, 29 Oct 53, (Letopis 'Zhurnal 'nykh Statey, No. 16, 1949).

KHMEL'NITSKIY, A.P.; KISELEVA, V.A.

Declassified 1955

Comparative investigation of the performance of a spark-ignition engine on liquefied, natural and coke gases and on gasoline.
Trudy Lab.dvig. no.5:145-166 '60. (MIRA 14:3)
(Gas and oil engines—Testing)

3(4)

AUTHOR: Klimel'nitskiy, A. R.

SOV/6-59-9-6/19

TITLE: Use of the Autocrane in Geodetical Work

PERIODICAL: Geodeziya i kartografiya, 1959, Nr 9, p 31 (USSR)

ABSTRACT: During the field season 1958, Team Nr 108 used an autocrane for loading and unloading timber and various commercial goods, and for auxiliary operations. The timber had a diameter of from 50 to 65 cm, and a length up to 14 m. The transport was carried out on four-wheel cars complicating manual unloading.

To unload a car with 50 m³ of timber, a brigade of 8 men needed 8-10 hours. By using the autocrane, the same brigade required only 2-3 hours for the same work. More than 2,000 m³ of timber were unloaded from the cars in this way, and loaded onto the trucks in 1958.

Card 1/1

MALKOV, V.M.; VIKULOV, S.V., red.; DRUGOV, V.I., red.; LOGINOV,
V.I., red.; ~~Mikhailov, P.D.~~, red.; SHIROKHOV, A.N., red.;
PARAMONOV, B.P., red.; ROMANOV, A.A., red.; NEVZOROV, V.T.,
red.; KHMEL'NITSKIY, A.S., red.;

[Volga-Baltic Sea Waterway] Volgo-balt. Vologda, Severo-
Zapadnoe knizhnoe izd-vo, 1965. 381 p. (MIRA 18:10)

KHMEL'NITSKIY, A.S.

Largest waterway. Transp. stroi. 14 no. 6:2-4 Je '64.

(MIRA 18:2)

1. Nachal'nik upravleniya Volgobaltstroy.

~~KHMELOVITSKYI~~, Dmitriy Georgiyevich [Khmel'nyts'kyi, D.H.], kand.ekon.nauk;
~~GORBENKO~~, Ye.M. [Horostenko, Ye.M.], red.; kand.ekon.nauk, red.;
LAZORENKO, M.F., red.

[Cost of industrial production and the principal ways of reducing it] Sobivartist' promyslovoi produktsii ta osnovni shliaskhy i snyzhennia. Kyiv, 1958. 38 p. (Tovarystvo dlia poshyrenia politychnykh i naukovykh znan' Ukrains'koi RSR. Ser.2, no.2).
(Efficiency, Industrial) (MIRA 12:3)

ZADOROZHNYY, Vasiliy Kirillovich [Zadorozhnyi, V.K.], kand.ekon.nauk;
KHMSL'NITSKIY, D.G. [Khmel'nyts'kyi, D.H.], kand.ekon.nauk,
glavnnyy red.; DAN'KO, I.V., otv. za vypusk

[Socialist reforms and the rising standard of living of West
Ukrainian workers] Sotsialistychni peretvorennia i zrostannia
dobrobutu trudiaschchych zakhidnykh oblastei URSS. Kyiv, 1959.
27 p. (Tovarystvo dlya poshyrennia politichnykh i naukovykh
znan' Ukrains'koi RSR. Ser.1, no.34) (MIRA 13:1)

1. Referent pravlinnya Tovarietva dlya poshirennya politichnikh
i naukovykh znan' Ukrains'koi RSR (for Dan'ko),
(Ukraine, Western--Economic conditions)

MALAKHOV, Ivan Kuz'mich; KHMELOVITSKIY, Dmitriy Georgiyevich [Khmel'nyts'kyi, D.H.]; BOLDYREV, R., red.; GUSAROV, K. [Gusarov, K.], tekhn.red.

[Economy, organization, and planning of machinery plants] Ekonomika, organizatsiya i planuvannia mashynobudivnykh pidpryienstv. Kyiv, Derzh.vyd-vo tekhn.lit-ry UkrSSR, 1959. 163 p. (MIRA 13:6) (Machinery-Industry).

XHMEL'NITSKIY, Dmitriy Georgiyevich [Khmel'nyts'kyi, D.H.], kand. ekonom. nauk, starshiy prepodavatel'; NIKOLAYEVA, L.[Nikolaieva, L.], red.; GAVRILETS', D. [Havrylets', D.], tekhn. red.

[Production costs and ways to reduce them] Sobivartist' produktsii ta shliakhy ii zmyzhennia. Kyiv, Derzh. vyd-vo polit. lit-ry URSR, 1961.
37 p.

(MIRA 14:10)

(Costs, Industrial)

"APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000722110016-1

BUENO, D. A. (ENG)

Dissertation: "An Investigation of Noise-Reducing Capacity in Reception of Radio-
telegraph Signals with Antenna Array." Cand Tech Sci, Moscow Electrical Engineering
Institute of Communications, 17 Jun 54. (Vechernaya Moskva, Moscow, 8 Jun 54)

SO: SUA 313, 23 Dec 1954

APPROVED FOR RELEASE: 09/17/2001

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9.327 (1139, 1159, 1067)

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S/106/61/000/008/001/006

A055/A127

AUTHOR: Khmel'nitskiy, E. P.

TITLE: Anode modulation under heavy overvoltage conditions with complex load

PERIODICAL: Elektrosvyaz', no. 8, 1961, 20-25

TEXT: In his earlier articles [Ref. 1: "Ob odnom sposobe znachitel'nogo povysheniya kolebatel'noy moshchnosti i kpd generatora rabotayushchego v perenapryazhennom rezhime" ("A method for increasing considerably the oscillating power and the efficiency of an oscillator operating under overvoltage conditions") Radiotekhnika, 1955, no. 8; Ref. 2: "Raschet generatora v perenapryazhennom rezhime pri rasstroyennei nagruzke" ("Calculation of an oscillator operating under overvoltage conditions with detuned load"), Elektrosvyaz', 1957, no. 5, and Ref. 3: "O nekotorykh osobennostyakh analiza sil'no perenapryazhennogo rezhima generatora s kompleksnoy nagruzkoj" ("Some peculiarities of the analysis of an oscillator operating under heavy overvoltage conditions with complex load") Elektrosvyaz', 1960, no. 5], the author did not consider the modulation problem. The present analysis is an attempt to tackle this difficult problem. The

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Anode modulation under heavy overvoltage ...

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analysis is limited to two points of the modulation characteristic in the case of a linear dependence of the oscillating voltage and current in the anode circuit upon the d-c anode voltage E_a . Under heavy overvoltage conditions, the residual voltage is negative, because $1 < \xi = \text{constant}$ ($\xi = U_{al}/E_a$), and no increase of its positive value takes place during the transition to the peak point. It is necessary therefore to find out what, in the modulation process under these conditions, is the cause of a practically linear relation between the fundamental frequency current and E_a .

$$I_{al} = f(E_a)$$

The first step in this analysis is, of course, the examination of the change in the pulse shape. The trough width θ_1 and the shift of its center ψ are related, as shown in one of the earlier works, by the following expression:

$$\varphi_1 = \arccos \frac{1}{\xi} = \frac{\psi + 0.5 \theta_1 - \psi_{11}}{2},$$

where φ_1 is the phase angle between the anode current and the load voltage at the fundamental frequency, and ψ_{11} is the shift of the fundamental frequency current amplitude from the pulse center. φ_1 being constant at modulation, and ξ

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Anode modulation under heavy overvoltage ...

being stable, an investigation leads the author to the following conclusions:
 1) the point determining the left-hand limit of the trough is practically constant at modulation; 2) ψ and θ_1 do not vary. The method used by the author for the calculation of the modulated oscillator is based on these conclusions. Under the here examined operation conditions, the lower cutoff angle θ varies considerably (together with E_g). To study this process, the author uses, after a slight modification, another formula derived in one of his earlier articles:

$$U_g = \frac{I_{sm}}{S(1 - \cos \theta)} - D(e_{a1} + e_{a2} + e_{a3})$$

where $(e_{a1} + e_{a2} + e_{a3})$ is the resulting a-c anode voltage at the moment $\omega t = 0$. This equation can also be written as follows:

$$\frac{I_{a1}}{S(U_g - DE_a)} = \alpha_1 (1 - \cos \theta).$$

[Abstracter's note: This analysis being a further development of the author's earlier articles, the same formulae, symbols and subscripts are used without any explanation, save in a few cases.]. To calculate the modulated oscillator, it is adequate, here, to find first all the data for the quiescent condition and use then these data for the calculation of the necessary data for the peak point.

Card 3/4

Anode modulation under heavy overvoltage ...

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A055/A127

For simplicity, a practical (numerical) example is used by the author to show how all these data can be calculated. There are 5 figures and 3 Soviet-bloc references.

SUBMITTED: February 10, 1961

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Card 4/4

KHMEL'NITSKIY, E.Ye.

Calculating the heat transfer ratio of the radiators of motor vehicles. Avt. prom. 31 no.2:26-30 F '65.

(MIRA 18:3)

1. TSentral'nyy ordena Trudovogo Krasnogo Znameni nauchno-issledovatel'skiy avtomobil'nyy i avtomotornyy institut.

AUTHORS: Minkin, M.L., Candidate of Technical Sciences, and Khmel'-
nitskiy, E.Ye. SOV/113-59-2-13/20

TITLE: Some Experience in the Production of Plate Radiators (Iz
opyta proizvodstva plastinchatykh radiatorov)

PERIODICAL: Avtomobil'naya promyshlennost', 1959, Nr 2, pp 27-28 (USSR)

ABSTRACT: The author describes the tests conducted by NAMI with plate radiators, used in "Moskvich" automobiles, upon request from the Moscow Small-Displacement Car Plant. The tests showed that the heat emission of the radiators can be increased up to 10% by using corrugated plates (Fig 2) with ridges and cavities. Furthermore, the use of copper instead of brass for their construction would further increase the heat emission by 16-18%. There are 1 photograph, 2 graphs, and 4 Soviet references.

ASSOCIATION: NAMI; Moskovskiy zavod malolitrazhnykh avtomobiley (Moscow Small Car Plant)

Card 1/1

MINKIN, M.L., kand.tekhn.nauk; KHMEL'NITSKIY, E.Ye.; SHAYEVICH, A.G.; KARAVAYEV,
V.I.

New radiators for the ZIL motor vehicles. Avt.prom. no.9:10-14
S '60. (MIRA 13:9)

1. Gosudarstvennyy soyuznyy ordena Trudovogo Krasnogo Znameni nauchno-
issledovatel'skiy avtomobil'nyy avtomotornyy institut i Moskovskiy
avtosavod imeni Likhacheva.

(Motor vehicles--Radiators)

MINKIN, M. L., kand.tekhn.nauk; KHMEL'NITSKII, E.Ye.; SHAYEVICH, A.G.; KARAVAYEV,
B.I.; PAPIN, A.A.

Increasing the effectiveness of cooling systems for automobile
engines. Avt. prom. no.2:10-13 F '61. (MIRA 14:3)

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(Automobiles--Engines--Cooling)

KHMEL'NITSKIY, E.Ye.

Criterions and methods for evaluating thermal effectiveness
of motor-car radiator cores. Avt.prom. 28 no.10:22-26 O
'62. (MIRA 15:9)

1. Gosudarstvennyy soyuznyy ordena Trudovogo Krasnogo Znameni
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(Motor vehicles—Radiators)

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Experience in organizing rural surgical aid in gastroduodenal hemorrhage caused by ulcers. Sov.med. 20 no.12;69-71 D '56.

(MLRA 10:1)

1. Iz Kirovogradskoy oblastnoy bol'nitsay.
(PEPTIC ULCER, hemorrhage
surg. management in village)

KHMELENITSKIY, G.I.

Automatic welding of longitudinal bearers in the frame of
freight cars. Avtom. svar. 17 no.7:61-63 Jl '64.

(MIRA 17:8)

1. Dneprodzerzhinskiy vagonostroitel'nyy zavod.

KR/EL'NITSKIY, G.; BABITSKIY, D.; PERLMAN, L.

Construction Industry - Accounting

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Shortcomings in the control of the Industrial Bank. Fin. SSSR 16
no.5:38-40 My '55. (MIRA 8:6)
(Ukraine--Banks and banking)

KHMER'NITSKIY, Georgiy Semenovich; KARAGODIN, V.L., redaktor; AVRUSHCHELINKO,
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Moskva, Izd-vo Ministerstva kommunal'nogo khoziaistva RSFSR,
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(Hydraulic engineering--Tables, calculations, etc.)
(Drainage, House)

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64-65 Jl '56. (MIRA 9:9)
(Ukraine--Construction industry--Finance)

KHMEL'NITSKIY, G.

~~strengthen the control of banking institutions over construction.~~
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KHMEL'NITSKIY, G.

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KHMEL'NITSKIY, G.

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Preparation of this page beginning from information by
KHMEL'NIKS'KIY, D.

Information obtained through the data of July 1981

MECH CMIC at KHM'NIKS'KIY gave 12 X 12 mm thickness, the

area of the plate is 10 cm², the density is 1.0 g/cm³.

Mr. KHM'NIKS'KIY gave the best yield (1981) of